



<110> Chernajovsky, Yuti  
Dreja, Hanna Stina  
Adams, Gillian

<120> Latent Fusion Protein

<130> 0623.1000000

<140> US 09/756,283

<141> 2001-01-09

<160> 100

<170> PatentIn version 3.0

<210> 1

<211> 15

<212> PRT

<213> Artificial

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<223> MMP cleavage site including linker sequence

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<210> 2

<211> 52

<212> DNA

<213> Artificial

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<223> Sense oligo

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<223> Antisense oligo

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<211> 29

<212> DNA

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<223> Sense Primer

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<223> Antisense Primer

<400> 5  
ccgaattcgc tttgcagatg ctggggcct 29

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<211> 31

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<212> DNA

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<223> Antisense Primer

<400> 7

ggtagatc agtttggaa gtttctggta ag

32

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ccaaatgtt gaacaacagg tggatcctc

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<223> Antisense Primer

<400> 9

ccgaattcgt ttggaaagtt tctggtaag

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<210> 10

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<213> Artificial

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<223> Sense Primer

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32

<210> 12

<211> 23

<212> DNA

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<223> Sense Primer

<400> 12

cgtccatggc gccttcgggg cct

23

<210> 13

<211> 29

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<223> Antisense Primer

<400> 13

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29

<210> 14

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<212> PRT

<213> Artificial

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<223> Flexible linker

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1                   5

<210> 15

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<212> PRT

<213> Artificial

<220>

<223> Cleavage site

<400> 15

Pro Leu Gly Leu Trp Ala  
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<210> 16

<211> 8

<212> PRT

<213> Artificial

<220>

<223> Flexible portion

<400> 16

Gly Gly Gly Gly Ser Ala Ala Ala  
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<210> 17

<211> 4

<212> PRT

<213> Artificial

<220>

<223> Core of cleavage site

<400> 17

Pro Leu Gly Leu  
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<210> 18

<211> 4

<212> PRT

<213> Artificial

<220>

<223> Core of cleavage site

<400> 18

Pro Leu Gly Ile

1

<210> 19

<211> 1376

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<223> LAP-mIFNbeta construct

<220>

<221> CDS

<222> (1)..(1368)

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tgg cta ctg gtg ctg acg cct ggc ccg ccg gcc gcg gga cta tcc acc Trp Leu Leu Val Leu Thr Pro Gly Pro Pro Ala Ala Gly Leu Ser Thr	
20 25 30	
tgc aag act atc gac atg gag ctg gtg aag cgg aag cgc atc gag gcc Cys Lys Thr Ile Asp Met Glu Leu Val Lys Arg Lys Arg Ile Glu Ala	
35 40 45	
atc cgc ggc cag atc ctg tcc aag ctg cgg ctc gcc agc ccc ccg agc Ile Arg Gly Gln Ile Leu Ser Lys Leu Arg Leu Ala Ser Pro Pro Ser	
50 55 60	
cag ggg gag gtg ccg ccc ggc ccg ctg ccc gag gcc gtg ctc gcc ctg Gln Gly Glu Val Pro Pro Gly Pro Leu Pro Glu Ala Val Leu Ala Leu	
65 70 75 80	
tac aac agc acc cgc gac cgg gtg gcc ggg gag agt gca gaa ccg gag Tyr Asn Ser Thr Arg Asp Arg Val Ala Gly Glu Ser Ala Glu Pro Glu	
85 90 95	
ccc gag cct gag gcc gac tac tac gcc aag gag gtc acc cgc gtg cta Pro Glu Pro Glu Ala Asp Tyr Tyr Ala Lys Glu Val Thr Arg Val Leu	
100 105 110	
atg gtg gaa acc cac aac gaa atc tat gac aag ttc aag cag agt aca Met Val Glu Thr His Asn Glu Ile Tyr Asp Lys Phe Lys Gln Ser Thr	
115 120 125	
cac agc ata tat atg ttc ttc aac aca tca gag ctc cga gaa gcg gta His Ser Ile Tyr Met Phe Phe Asn Thr Ser Glu Leu Arg Glu Ala Val	
130 135 140	
cct gaa ccc gtg ttg ctc tcc cgg gca gag ctg cgt ctg ctg agg agg	
	480

Pro	Glu	Pro	Val	Leu	Leu	Ser	Arg	Ala	Glu	Leu	Arg	Leu	Leu	Arg	Arg	
145					150					155					160	
ctc	aag	tta	aaa	gtg	gag	cag	cac	gtg	gag	ctg	tac	cag	aaa	tac	agc	528
Leu	Lys	Leu	Lys	Val	Glu	Gln	His	Val	Glu	Leu	Tyr	Gln	Lys	Tyr	Ser	
										170					175	
aac	aat	tcc	tgg	cga	tac	ctc	agc	aac	cg	ctg	ctg	gca	ccc	agc	gac	576
Asn	Asn	Ser	Trp	Arg	Tyr	Leu	Ser	Asn	Arg	Leu	Leu	Ala	Pro	Ser	Asp	
										185					190	
tcg	cca	gag	tgg	tta	tct	ttt	gat	gtc	acc	gga	gtt	gtg	cgg	cag	tgg	624
Ser	Pro	Glu	Trp	Leu	Ser	Phe	Asp	Val	Thr	Gly	Val	Val	Arg	Gln	Trp	
										195	200				205	
ttg	agc	cgt	gga	ggg	gaa	att	gag	ggc	ttt	cgc	ctt	agc	gcc	cac	tgc	672
Leu	Ser	Arg	Gly	Gly	Glu	Ile	Glu	Gly	Phe	Arg	Leu	Ser	Ala	His	Cys	
										210	215				220	
tcc	tgt	gac	agc	agg	gat	aac	aca	ctg	caa	gtg	gac	atc	aac	ggg	tcc	720
Ser	Cys	Asp	Ser	Arg	Asp	Asn	Thr	Leu	Gln	Val	Asp	Ile	Asn	Gly	Phe	
										225	230				235	240
act	acc	ggc	cgc	cga	ggt	gac	ctg	gcc	acc	att	cat	ggc	atg	aac	cgg	768
Thr	Thr	Gly	Arg	Arg	Gly	Asp	Leu	Ala	Thr	Ile	His	Gly	Met	Asn	Arg	
										245	250				255	
cct	ttc	ctg	ctt	ctc	atg	gcc	acc	ccg	ctg	gag	agg	gcc	cag	cat	ctg	816
Pro	Phe	Leu	Leu	Leu	Met	Ala	Thr	Pro	Leu	Glu	Arg	Ala	Gln	His	Leu	
										260	265				270	
caa	agc	gaa	tcc	ggg	gga	ggc	gga	tcc	ccg	ctc	ggg	ctt	tgg	gcg	gga	864
Gln	Ser	Glu	Phe	Gly	Gly	Gly	Gly	Ser	Pro	Leu	Gly	Leu	Trp	Ala	Gly	
										275	280				285	
ggg	ggc	tca	gcg	gcc	gca	atc	aac	tat	aag	cag	ctc	cag	ctc	caa	gaa	912
Gly	Gly	Ser	Ala	Ala	Ile	Asn	Tyr	Lys	Gln	Leu	Gln	Leu	Gln	Glu		
										290	295				300	
agg	acg	aac	att	cgg	aaa	tgt	cag	gag	ctc	ctg	gag	cag	ctg	aat	gga	960
Arg	Thr	Asn	Ile	Arg	Lys	Cys	Gln	Glu	Leu	Leu	Glu	Gln	Leu	Asn	Gly	
										305	310				315	320
aag	atc	aac	ctc	acc	tac	agg	gcg	gac	ttc	aag	atc	cct	atg	gag	atg	1008
Lys	Ile	Asn	Leu	Thr	Tyr	Arg	Ala	Asp	Phe	Lys	Ile	Pro	Met	Glu	Met	
										325	330				335	
acg	gag	aag	atg	cag	aag	agt	tac	act	gcc	ttt	gcc	atc	caa	gag	atg	1056
Thr	Glu	Lys	Met	Gln	Lys	Ser	Tyr	Thr	Ala	Phe	Ala	Ile	Gln	Glu	Met	
										340	345				350	
ctc	cag	aat	gtc	ttt	ctt	gtc	tcc	aga	aac	aat	ttc	tcc	agc	act	ggg	1104
Leu	Gln	Asn	Val	Phe	Leu	Val	Phe	Arg	Asn	Asn	Phe	Ser	Ser	Thr	Gly	
										355	360				365	
tgg	aat	gag	act	att	gtt	gta	cgt	ctc	ctg	gat	gaa	ctc	cac	cag	cag	1152
Trp	Asn	Glu	Thr	Ile	Val	Val	Arg	Leu	Leu	Asp	Glu	Leu	His	Gln	Gln	
										370	375				380	
aca	gtg	ttt	ctg	aag	aca	gta	cta	gag	gaa	aag	caa	gag	gaa	aga	ttg	1200
Thr	Val	Phe	Leu	Lys	Thr	Val	Leu	Glu	Lys	Gln	Glu	Glu	Arg	Leu		
										385	390				395	400
acg	tgg	gag	atg	tcc	tca	act	gct	ctc	cac	ttg	aag	agc	tat	tac	tgg	1248
Thr	Trp	Glu	Met	Ser	Ser	Thr	Ala	Leu	His	Leu	Lys	Ser	Tyr	Tyr	Trp	
										405	410				415	
agg	gtg	caa	agg	tac	ctt	aaa	ctc	atg	aag	tac	aac	agc	tac	gcc	tgg	1296
Arg	Val	Gln	Arg	Tyr	Leu	Lys	Leu	Met	Lys	Tyr	Asn	Ser	Tyr	Ala	Trp	

420	425	430	
atg gtg gtc cga gca gag atc ttc agg aac ttt ctc atc att cga aga Met Val Val Arg Ala Glu Ile Phe Arg Asn Phe Leu Ile Ile Arg Arg 435 440 445			1344
ctt acc aga aac ttc caa aac tga tctagacc Leu Thr Arg Asn Phe Gln Asn 450 455			1376
 <b>&lt;210&gt; 20</b>			
<b>&lt;211&gt; 455</b>			
<b>&lt;212&gt; PRT</b>			
<b>&lt;213&gt; Artificial</b>			
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Met Pro Pro Ser Gly Leu Arg Leu Leu Pro Leu Leu Leu Pro Leu Leu 1 5 10 15			
Trp Leu Leu Val Leu Thr Pro Gly Pro Pro Ala Ala Gly Leu Ser Thr 20 25 30			
Cys Lys Thr Ile Asp Met Glu Leu Val Lys Arg Lys Arg Ile Glu Ala 35 40 45			
Ile Arg Gly Gln Ile Leu Ser Lys Leu Arg Leu Ala Ser Pro Pro Ser 50 55 60			
Gln Gly Glu Val Pro Pro Gly Pro Leu Pro Glu Ala Val Leu Ala Leu 65 70 75 80			
Tyr Asn Ser Thr Arg Asp Arg Val Ala Gly Glu Ser Ala Glu Pro Glu 85 90 95			
Pro Glu Pro Glu Ala Asp Tyr Tyr Ala Lys Glu Val Thr Arg Val Leu 100 105 110			
Met Val Glu Thr His Asn Glu Ile Tyr Asp Lys Phe Lys Gln Ser Thr 115 120 125			
His Ser Ile Tyr Met Phe Phe Asn Thr Ser Glu Leu Arg Glu Ala Val 130 135 140			
Pro Glu Pro Val Leu Leu Ser Arg Ala Glu Leu Arg Leu Leu Arg Arg 145 150 155 160			
Leu Lys Leu Lys Val Glu Gln His Val Glu Leu Tyr Gln Lys Tyr Ser 165 170 175			
Asn Asn Ser Trp Arg Tyr Leu Ser Asn Arg Leu Leu Ala Pro Ser Asp 180 185 190			

Ser Pro Glu Trp Leu Ser Phe Asp Val Thr Gly Val Val Arg Gln Trp  
195 200 205

Leu Ser Arg Gly Gly Glu Ile Glu Gly Phe Arg Leu Ser Ala His Cys  
210 215 220

Ser Cys Asp Ser Arg Asp Asn Thr Leu Gln Val Asp Ile Asn Gly Phe  
225 230 235 240

Thr Thr Gly Arg Arg Gly Asp Leu Ala Thr Ile His Gly Met Asn Arg  
245 250 255

Pro Phe Leu Leu Leu Met Ala Thr Pro Leu Glu Arg Ala Gln His Leu  
260 265 270

Gln Ser Glu Phe Gly Gly Gly Ser Pro Leu Gly Leu Trp Ala Gly  
275 280 285

Gly Gly Ser Ala Ala Ala Ile Asn Tyr Lys Gln Leu Gln Leu Gln Glu  
290 295 300

Arg Thr Asn Ile Arg Lys Cys Gln Glu Leu Leu Glu Gln Leu Asn Gly  
305 310 315 320

Lys Ile Asn Leu Thr Tyr Arg Ala Asp Phe Lys Ile Pro Met Glu Met  
325 330 335

Thr Glu Lys Met Gln Lys Ser Tyr Thr Ala Phe Ala Ile Gln Glu Met  
340 345 350

Leu Gln Asn Val Phe Leu Val Phe Arg Asn Asn Phe Ser Ser Thr Gly  
355 360 365

Trp Asn Glu Thr Ile Val Val Arg Leu Leu Asp Glu Leu His Gln Gln  
370 375 380

Thr Val Phe Leu Lys Thr Val Leu Glu Glu Lys Gln Glu Glu Arg Leu  
385 390 395 400

Thr Trp Glu Met Ser Ser Thr Ala Leu His Leu Lys Ser Tyr Tyr Trp  
405 410 415

Arg Val Gln Arg Tyr Leu Lys Leu Met Lys Tyr Asn Ser Tyr Ala Trp  
420 425 430

Met Val Val Arg Ala Glu Ile Phe Arg Asn Phe Leu Ile Ile Arg Arg  
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Leu Thr Arg Asn Phe Gln Asn  
450 455

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<212> DNA  
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<220>  
<223> mIFNbeta-LAP construct  
<220>  
<221> CDS  
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acc aca gcc ctc tcc atc aac tat aag cag ctc cag ctc caa gaa agg 96  
Thr Thr Ala Leu Ser Ile Asn Tyr Lys Gln Leu Gln Leu Gln Glu Arg  
20 25 30  
acg aac att cgg aaa tgt cag gag ctc ctg gag cag ctg aat gga aag 144  
Thr Asn Ile Arg Lys Cys Gln Glu Leu Leu Glu Gln Leu Asn Gly Lys  
35 40 45  
atc aac ctc acc tac agg gcg gac ttc aag atc cct atg gag atg acg 192  
Ile Asn Leu Thr Tyr Arg Ala Asp Phe Lys Ile Pro Met Glu Met Thr  
50 55 60  
gag aag atg cag aag agt tac act gcc ttt gcc atc caa gag atg ctc 240  
Glu Lys Met Gln Lys Ser Tyr Thr Ala Phe Ala Ile Gln Glu Met Leu  
65 70 75 80  
cag aat gtc ttt ctt gtc ttc aga aac aat ttc tcc agc act ggg tgg 288  
Gln Asn Val Phe Leu Val Phe Arg Asn Asn Phe Ser Ser Thr Gly Trp  
85 90 95  
aat gag act att gtt gta cgt ctc ctg gat gaa ctc cac cag cag aca 336  
Asn Glu Thr Ile Val Val Arg Leu Leu Asp Glu Leu His Gln Gln Thr  
100 105 110  
gtg ttt ctg aag aca gta cta gag gaa aag caa gag gaa aga ttg acg 384  
Val Phe Leu Lys Thr Val Leu Glu Glu Lys Gln Glu Arg Leu Thr  
115 120 125  
tgg gag atg tcc tca act gct ctc cac ttg aag agc tat tac tgg agg 432  
Trp Glu Met Ser Ser Thr Ala Leu His Leu Lys Ser Tyr Tyr Trp Arg  
130 135 140  
gtg caa agg tac ctt aaa ctc atg aag tac aac agc tac gcc tgg atg 480  
Val Gln Arg Tyr Leu Lys Leu Met Lys Tyr Asn Ser Tyr Ala Trp Met  
145 150 155 160  
gtg gtc cga gca gag atc ttc agg aac ttt ctc atc att cga aga ctt 528  
Val Val Arg Ala Glu Ile Phe Arg Asn Phe Leu Ile Ile Arg Arg Leu  
165 170 175  
acc aga aac ttccaa aac gaa ttc ggg gga ggc gga tcc ccg ctc ggg 576  
Thr Arg Asn Phe Gln Asn Glu Phe Gly Gly Gly Ser Pro Leu Gly

180	185	190	
ctt tgg gcg gga ggg ggc tca	gcf gcc gca cta tcc acc tgc aag act		624
Leu Trp Ala Gly Gly Ser Ala Ala Ala Leu Ser Thr Cys Lys Thr			
195	200	205	
atc gac atg gag ctg gtg aag	cgg aag cgc atc gag gcc atc cgc ggc		672
Ile Asp Met Glu Leu Val Lys	Arg Lys Arg Ile Glu Ala Ile Arg Gly		
210	215	220	
cag atc ctg tcc aag ctg cgg ctc	gcc agc ccc ccg agc cag ggg gag		720
Gln Ile Leu Ser Lys Leu Arg Leu Ala Ser Pro Pro Ser Gln Gly Glu			
225	230	235	240
gtg ccg ccc ggc ccg ctg ccc gag	gcc gtg ctc gcc ctg tac aac agc		768
Val Pro Pro Gly Pro Leu Pro Glu Ala Val Leu Ala Leu Tyr Asn Ser			
245	250	255	
acc cgc gac cgg gtg gcc ggg gag	agt gca gaa ccg gag ccc gag cct		816
Thr Arg Asp Arg Val Ala Gly Glu Ser Ala Glu Pro Glu Pro			
260	265	270	
gag gcc gac tac tac gcc aag gag	gtc acc cgc gtg cta atg gtg gaa		864
Glu Ala Asp Tyr Tyr Ala Lys Glu Val Thr Arg Val Leu Met Val Glu			
275	280	285	
acc cac aac gaa atc tat gac aag	tac ctt aag cag agt aca cac agc ata		912
Thr His Asn Glu Ile Tyr Asp Lys Phe Lys Gln Ser Thr His Ser Ile			
290	295	300	
tat atg ttc ttc aac aca tca	gag ctc cga gaa gcg gta cct gaa ccc		960
Tyr Met Phe Phe Asn Thr Ser Glu Leu Arg Glu Ala Val Pro Glu Pro			
305	310	315	320
gtg ttg ctc tcc cgg gca gag	ctg cgt ctg ctg agg agg ctc aag tta		1008
Val Leu Leu Ser Arg Ala Glu Leu Arg Leu Leu Arg Arg Leu Lys Leu			
325	330	335	
aaa gtg gag cag cac gtg gag	ctg tac cag aaa tac agc aac aat tcc		1056
Lys Val Glu Gln His Val Glu Leu Tyr Gln Lys Tyr Ser Asn Asn Ser			
340	345	350	
tgg cga tac ctc agc aac cgg	ctg ctg gca ccc agc gac tcg cca gag		1104
Trp Arg Tyr Leu Ser Asn Arg	Leu Leu Ala Pro Ser Asp Ser Pro Glu		
355	360	365	
tgg tta tct ttt gat gtc acc	gga gtt gtg cgg cag tgg ttg agc cgt		1152
Trp Leu Ser Phe Asp Val Thr	Gly Val Val Arg Gln Trp Leu Ser Arg		
370	375	380	
gga ggg gaa att gag ggc ttt	cgc ctt agc gcc cac tgc tcc tgt gac		1200
Gly Glu Ile Glu Gly Phe Arg Leu Ser Ala His Cys Ser Cys Asp			
385	390	395	400
agc agg gat aac aca ctg caa	gtg gac atc aac ggg ttc act acc ggc		1248
Ser Arg Asp Asn Thr Leu Gln Val Asp Ile Asn Gly Phe Thr Thr Gly			
405	410	415	
cgc cga ggt gac ctg gcc acc	att cat ggc atg aac cgg cct ttc ctg		1296
Arg Arg Gly Asp Leu Ala Thr Ile His Gly Met Asn Arg Pro Phe Leu			
420	425	430	
ctt ctc atg gcc acc ccg ctg	gag agg gcc cag cat ctg caa agc tga		1344
Leu Leu Met Ala Thr Pro Leu Glu Arg Ala Gln His Leu Gln Ser			
435	440	445	
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<211> 447

<212> PRT

<213> Artificial

<400> 22

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20 25 30

Thr Asn Ile Arg Lys Cys Gln Glu Leu Leu Glu Gln Leu Asn Gly Lys  
35 40 45

Ile Asn Leu Thr Tyr Arg Ala Asp Phe Lys Ile Pro Met Glu Met Thr  
50 55 60

Glu Lys Met Gln Lys Ser Tyr Thr Ala Phe Ala Ile Gln Glu Met Leu  
65 70 75 80

Gln Asn Val Phe Leu Val Phe Arg Asn Asn Phe Ser Ser Thr Gly Trp  
85 90 95

Asn Glu Thr Ile Val Val Arg Leu Leu Asp Glu Leu His Gln Gln Thr  
100 105 110

Val Phe Leu Lys Thr Val Leu Glu Glu Lys Gln Glu Glu Arg Leu Thr  
115 120 125

Trp Glu Met Ser Ser Thr Ala Leu His Leu Lys Ser Tyr Tyr Trp Arg  
130 135 140

Val Gln Arg Tyr Leu Lys Leu Met Lys Tyr Asn Ser Tyr Ala Trp Met  
145 150 155 160

Val Val Arg Ala Glu Ile Phe Arg Asn Phe Leu Ile Ile Arg Arg Leu  
165 170 175

Thr Arg Asn Phe Gln Asn Glu Phe Gly Gly Gly Ser Pro Leu Gly  
180 185 190

Leu Trp Ala Gly Gly Ser Ala Ala Ala Leu Ser Thr Cys Lys Thr  
195 200 205

Ile Asp Met Glu Leu Val Lys Arg Lys Arg Ile Glu Ala Ile Arg Gly  
210 215 220

Gln Ile Leu Ser Lys Leu Arg Leu Ala Ser Pro Pro Ser Gln Gly Glu

225

230

235

240

Val Pro Pro Gly Pro Leu Pro Glu Ala Val Leu Ala Leu Tyr Asn Ser  
245 250 255

Thr Arg Asp Arg Val Ala Gly Glu Ser Ala Glu Pro Glu Pro Glu Pro  
260 265 270

Glu Ala Asp Tyr Tyr Ala Lys Glu Val Thr Arg Val Leu Met Val Glu  
275 280 285

Thr His Asn Glu Ile Tyr Asp Lys Phe Lys Gln Ser Thr His Ser Ile  
290 295 300

Tyr Met Phe Phe Asn Thr Ser Glu Leu Arg Glu Ala Val Pro Glu Pro  
305 310 315 320

Val Leu Leu Ser Arg Ala Glu Leu Arg Leu Leu Arg Arg Leu Lys Leu  
325 330 335

Lys Val Glu Gln His Val Glu Leu Tyr Gln Lys Tyr Ser Asn Asn Ser  
340 345 350

Trp Arg Tyr Leu Ser Asn Arg Leu Leu Ala Pro Ser Asp Ser Pro Glu  
355 360 365

Trp Leu Ser Phe Asp Val Thr Gly Val Val Arg Gln Trp Leu Ser Arg  
370 375 380

Gly Gly Glu Ile Glu Gly Phe Arg Leu Ser Ala His Cys Ser Cys Asp  
385 390 395 400

Ser Arg Asp Asn Thr Leu Gln Val Asp Ile Asn Gly Phe Thr Thr Gly  
405 410 415

Arg Arg Gly Asp Leu Ala Thr Ile His Gly Met Asn Arg Pro Phe Leu  
420 425 430

Leu Leu Met Ala Thr Pro Leu Glu Arg Ala Gln His Leu Gln Ser  
435 440 445

<210> 23

<211> 390

<212> PRT

<213> Homo sapiens

<400> 23

Met Pro Pro Ser Gly Leu Arg Leu Leu Pro Leu Leu Leu Pro Leu Leu  
1 5 10 15

Trp Leu Leu Val Leu Thr Pro Gly Pro Pro Ala Ala Gly Leu Ser Thr  
20 25 30

Cys Lys Thr Ile Asp Met Glu Leu Val Lys Arg Lys Arg Ile Glu Ala  
35 40 45

Ile Arg Gly Gln Ile Leu Ser Lys Leu Arg Leu Ala Ser Pro Pro Ser  
50 55 60

Gln Gly Glu Val Pro Pro Gly Pro Leu Pro Glu Ala Val Leu Ala Leu  
65 70 75 80

Tyr Asn Ser Thr Arg Asp Arg Val Ala Gly Glu Ser Ala Glu Pro Glu  
85 90 95

Pro Glu Pro Glu Ala Asp Tyr Tyr Ala Lys Glu Val Thr Arg Val Leu  
100 105 110

Met Val Glu Thr His His Glu Ile Tyr Asp Lys Phe Lys Gln Ser Thr  
115 120 125

His Ser Thr Tyr Met Phe Phe Asn Ile Ser Glu Leu Arg Glu Ala Val  
130 135 140

Pro Glu Pro Val Leu Leu Ser Arg Ala Glu Leu Arg Leu Leu Arg Leu  
145 150 155 160

Lys Leu Lys Val Glu Gln His Val Glu Leu Tyr Gln Lys Tyr Ser Asn  
165 170 175

Asn Ser Trp Arg Tyr Leu Ser Asn Arg Leu Leu Ala Pro Ser Asp Ser  
180 185 190

Pro Glu Trp Leu Ser Phe Asp Val Thr Gly Val Val Arg Gln Trp Leu  
195 200 205

Ser Arg Gly Gly Glu Ile Glu Gly Phe Arg Leu Ser Ala His Cys Ser  
210 215 220

Cys Asp Ser Arg Asp Asn Thr Leu Gln Val Asp Ile Asn Gly Phe Thr  
225 230 235 240

Thr Gly Arg Arg Gly Asp Leu Ala Thr Ile His Gly Met Asn Arg Pro  
245 250 255

Phe Leu Leu Leu Met Ala Thr Pro Leu Glu Arg Ala Gln His Leu Gln  
260 265 270

Ser Ser Arg His Arg Arg Ala Leu Asp Thr Asn Tyr Cys Phe Ser Ser  
275 280 285

Thr Glu Lys Asn Cys Cys Val Arg Gln Leu Tyr Ile Asp Phe Arg Lys  
290 295 300

Asp Leu Gly Trp Lys Trp Ile His Glu Pro Lys Gly Tyr His Ala Asn  
305 310 315 320

Phe Cys Leu Gly Pro Cys Pro Tyr Ile Trp Ser Leu Asp Thr Gln Tyr  
325 330 335

Ser Lys Val Leu Ala Leu Tyr Asn Gln His Asn Pro Gly Ala Ser Ala  
340 345 350

Ala Pro Cys Cys Val Pro Gln Ala Leu Glu Pro Leu Pro Ile Val Tyr  
355 360 365

Tyr Val Gly Arg Lys Pro Lys Val Glu Gln Leu Ser Asn Met Ile Val  
370 375 380

Arg Ser Cys Lys Cys Ser  
385 390

<210> 24

<211> 414

<212> PRT

<213> Homo sapiens

<400> 24

Met His Tyr Cys Val Leu Ser Ala Phe Leu Ile Leu His Leu Val Thr  
1 5 10 15

Val Ala Leu Ser Leu Ser Thr Cys Ser Thr Leu Asp Met Gln Gln Phe  
20 25 30

Met Arg Lys Arg Ile Glu Ala Ile Arg Gly Gln Ile Leu Ser Lys Leu  
35 40 45

Lys Leu Thr Ser Pro Pro Glu Asp Tyr Pro Glu Pro Glu Glu Val Pro  
50 55 60

Pro Glu Val Ile Ser Ile Tyr Asn Ser Thr Arg Asp Leu Leu Gln Glu  
65 70 75 80

Lys Ala Ser Arg Arg Ala Ala Ala Cys Glu Arg Glu Arg Ser Asp Glu  
85 90 95

Glu Tyr Tyr Ala Lys Glu Val Tyr Lys Ile Asp Met Pro Pro Phe Phe  
100 105 110

Pro Ser Glu Asn Ala Ile Pro Pro Thr Phe Tyr Arg Pro Tyr Phe Arg  
115 120 125

Ile Val Arg Phe Asp Val Ser Ala Met Glu Lys Asn Ala Ser Asn Leu  
130 135 140

Val Lys Ala Glu Phe Arg Val Phe Arg Leu Gln Asn Pro Lys Ala Arg  
145 150 155 160

Val Pro Glu Gln Arg Ile Glu Leu Tyr Gln Ile Leu Lys Ser Lys Asp  
165 170 175

Leu Ile Ser Pro Thr Gln Arg Tyr Ile Asp Ser Lys Val Val Lys Thr  
180 185 190

Arg Ala Glu Gly Glu Trp Leu Ser Phe Asp Val Thr Asp Ala Val His  
195 200 205

Glu Trp Leu His His Lys Asp Arg Asn Leu Gly Phe Lys Ile Ser Leu  
210 215 220

His Cys Pro Cys Cys Thr Phe Val Pro Ser Asn Asn Tyr Ile Ile Pro  
225 230 235 240

Asn Lys Ser Glu Glu Leu Glu Ala Arg Phe Ala Gly Ile Asp Gly Ile  
245 250 255

Ser Thr Tyr Thr Ser Gly Asp Gln Lys Thr Ile Lys Ser Thr Arg Lys  
260 265 270

Lys Asn Ser Gly Lys Thr Pro His Leu Leu Leu Met Leu Leu Pro Ser  
275 280 285

Tyr Arg Leu Glu Ser Gln Gln Thr Asn Arg Arg Lys Lys Arg Ala Leu  
290 295 300

Asp Ala Ala Tyr Cys Phe Arg Asn Val Gln Asp Asn Cys Cys Leu Arg  
305 310 315 320

Pro Leu Tyr Ile Asp Phe Lys Arg Asp Leu Gly Trp Lys Trp Ile His  
325 330 335

Glu Pro Lys Gly Tyr Asn Ala Asn Phe Cys Ala Gly Ala Cys Pro Tyr  
340 345 350

Leu Trp Ser Ser Asp Thr Gln His Ser Arg Val Leu Ser Leu Tyr Asn  
355 360 365

Thr Glu Asn Pro Glu Ala Ser Ala Ser Pro Cys Cys Val Ser Gln Asp  
370 375 380

Leu Glu Pro Leu Thr Ile Leu Tyr Tyr Ile Gly Lys Ile Pro Lys Ile  
385 390 395 400

Glu Gln Leu Ser Asn Met Ile Val Lys Ser Cys Lys Cys Ser  
405 410

<210> 25

<211> 412

<212> PRT

<213> Homo sapiens

<400> 25

Met Lys Met His Leu Gln Arg Ala Leu Val Val Leu Ala Leu Leu His  
1 5 10 15

Phe Ala Thr Val Ser Leu Ser Leu Ser Thr Cys Thr Thr Leu Asp Phe  
20 25 30

Gly His Ile Lys Lys Lys Arg Val Glu Ala Ile Arg Gly Gln Ile Leu  
35 40 45

Ser Lys Leu Arg Leu Thr Ser Pro Pro Glu Pro Thr Val Met Thr His  
50 55 60

Val Pro Tyr Gln Val Leu Ala Leu Tyr Asn Ser Thr Arg Glu Leu Leu  
65 70 75 80

Glu Glu His Gly Glu Arg Lys Glu Glu Gly Cys Thr Gln Glu Asn Thr  
85 90 95

Glu Ser Glu Tyr Tyr Ala Lys Glu Ile His Lys Phe Asp Met Ile Gln  
100 105 110

Gly Leu Ala Glu His Asn Glu Leu Ala Val Cys Pro Lys Gly Ile Thr  
115 120 125

Ser Lys Val Phe Arg Phe Asn Val Ser Ser Val Glu Lys Asn Arg Thr  
130 135 140

Asn Leu Phe Arg Ala Glu Phe Arg Val Leu Arg Val Pro Asn Pro Ser  
145 150 155 160

Ser Lys Arg Asn Glu Gln Arg Ile Glu Leu Phe Gln Ile Leu Arg Pro  
165 170 175

Asp Glu His Ile Ala Lys Gln Arg Tyr Ile Gly Gly Lys Asn Leu Pro  
180 185 190

Thr Arg Gly Thr Ala Glu Trp Leu Ser Phe Asp Val Thr Asp Thr Val  
195 200 205

Arg Glu Trp Leu Leu Arg Arg Glu Ser Asn Leu Gly Leu Glu Ile Ser  
210 215 220

Ile His Cys Pro Cys His Thr Phe Gln Pro Asn Gly Asp Ile Leu Glu  
225 230 235 240

Asn Ile His Glu Val Met Glu Ile Lys Phe Lys Gly Val Asp Asn Glu  
245 250 255

Asp Asp His Gly Arg Gly Asp Leu Gly Arg Leu Lys Lys Gln Lys Asp  
260 265 270

Asn Asn Asn Pro His Leu Ile Leu Met Met Ile Pro Pro His Arg Leu  
275 280 285

Asp Asn Pro Gly Gln Gly Gln Arg Lys Lys Arg Ala Leu Asp Ile  
290 295 300

Asn Tyr Cys Phe Arg Asn Leu Glu Glu Asn Cys Cys Val Arg Pro Leu  
305 310 315 320

Tyr Ile Asp Phe Arg Gln Asp Leu Gly Trp Lys Trp Val His Glu Pro  
325 330 335

Lys Gly Tyr Tyr Ala Asn Phe Cys Ser Gly Pro Cys Pro Tyr Leu Arg  
340 345 350

Ser Ala Asp Thr Thr His Ser Thr Val Leu Gly Leu Tyr Asn Thr Leu  
355 360 365

Asn Pro Glu Ala Ser Ala Ser Pro Cys Cys Val Pro Gln Asp Leu Glu  
370 375 380

Pro Leu Thr Ile Leu Tyr Tyr Val Gly Arg Thr Pro Lys Val Glu Gln  
385 390 395 400

Leu Ser Asn Met Val Val Lys Ser Cys Lys Cys Ser  
405 410

<210> 26

<211> 304

<212> PRT

<213> Gallus domesticus

<400> 26

Met Asp Pro Met Ser Ile Gly Pro Lys Ser Cys Gly Gly Ser Pro Trp  
1 5 10 15

Arg Pro Pro Gly Thr Ala Pro Trp Ser Ile Gly Ser Arg Arg Ala Thr  
20 25 30

Ala Ser Ser Ser Cys Ser Thr Ser Ser Arg Val Arg Ala Glu Val Gly  
35 40 45

Gly Arg Ala Leu Leu His Arg Ala Glu Leu Arg Met Leu Arg Gln Lys  
50 55 60

Ala Ala Ala Asp Ser Ala Gly Thr Glu Gln Arg Leu Glu Leu Tyr Gln  
65 70 75 80

Gly Tyr Gly Asn Ala Ser Trp Arg Tyr Leu His Gly Arg Ser Val Arg  
85 90 95

Ala Thr Ala Asp Asp Glu Trp Leu Ser Phe Asp Val Thr Asp Ala Val  
100 105 110

His Gln Trp Leu Ser Gly Ser Glu Leu Leu Gly Val Phe Lys Leu Ser  
115 120 125

Val His Cys Pro Cys Glu Met Gly Pro Gly His Ala Asp Glu Met Arg  
130 135 140

Ile Ser Ile Glu Gly Phe Glu Gln Gln Arg Gly Asp Met Gln Ser Ile  
145 150 155 160

Ala Lys Lys His Arg Arg Val Pro Tyr Val Leu Ala Met Ala Leu Pro  
165 170 175

Ala Glu Arg Ala Asn Glu Leu His Ser Ala Arg Arg Arg Asp Leu  
180 185 190

Asp Thr Asp Tyr Cys Phe Gly Pro Gly Thr Asp Glu Lys Asn Cys Cys  
195 200 205

Val Arg Pro Leu Tyr Ile Asp Phe Arg Lys Asp Leu Gln Trp Lys Trp  
210 215 220

Ile His Glu Pro Lys Gly Tyr Met Ala Asn Phe Cys Met Gly Pro Cys  
225 230 235 240

Pro Tyr Ile Trp Ser Ala Asp Thr Gln Tyr Ile Lys Val Leu Ala Leu  
245 250 255

Tyr Asn Gln Asn Asn Pro Gly Ala Ser Ala Ala Pro Cys Cys Val Pro  
260 265 270

Gln Ile Leu Asp Pro Leu Pro Ile Ile Tyr Tyr Val Gly Arg Asn Val  
275 280 285

Arg Val Glu Gln Leu Ser Asn Met Val Val Arg Ala Cys Lys Cys Ser  
290 295 300

<210> 27

<211> 383

<212> PRT

<213> Rana sp.

<400> 27

Met Glu Val Leu Trp Met Leu Leu Val Leu Leu Val Leu His Leu Ser  
1 5 10 15

Ser Leu Ala Met Ser Leu Ser Thr Cys Lys Ala Val Asp Met Glu Glu  
20 25 30

Val Arg Lys Arg Arg Ile Glu Ala Ile Arg Gly Gln Ile Leu Ser Lys  
35 40 45

Leu Lys Leu Asp Lys Ile Pro Asp Val Asp Ser Glu Lys Met Thr Val  
50 55 60

Pro Ser Glu Ala Ile Phe Leu Tyr Asn Ser Thr Leu Glu Val Ile Arg  
65 70 75 80

Glu Lys Ala Thr Arg Glu Glu Glu His Val Gly His Asp Gln Asn  
85 90 95

Ile Gln Asp Tyr Tyr Ala Lys Gln Val Tyr Arg Phe Glu Ser Ile Thr  
100 105 110

Glu Leu Glu Asp His Glu Phe Lys Phe Lys Phe Asn Ala Ser Asn Val  
115 120 125

Arg Glu Asn Val Gly Met Asn Ser Leu Leu His His Ala Glu Leu Arg  
130 135 140

Met Tyr Lys Lys Gln Thr Asp Lys Asn Met Asp Gln Arg Met Glu Leu  
145 150 155 160

Phe Trp Lys Tyr Gln Glu Asn Gly Thr Thr His Ser Arg Tyr Leu Glu  
165 170 175

Ser Lys Tyr Ile Thr Pro Val Thr Asp Asp Glu Trp Met Ser Phe Asp  
180 185 190

Val Thr Lys Thr Val Asn Glu Trp Leu Lys Arg Ala Glu Glu Asn Glu  
195 200 205

Gln Phe Gly Leu Gln Pro Ala Cys Lys Cys Pro Thr Pro Gln Ala Lys  
210 215 220

Asp Ile Asp Ile Glu Gly Phe Pro Ala Leu Arg Gly Asp Leu Ala Ser  
225 230 235 240

Leu Ser Ser Lys Glu Asn Thr Lys Pro Tyr Leu Met Ile Thr Ser His  
245 250 255

Pro Ala Glu Arg Ile Asp Thr Val Thr Ser Ser Arg Lys Lys Arg Gly  
260 265 270

Val Gly Gln Glu Tyr Cys Phe Gly Asn Asn Gly Pro Asn Cys Cys Val  
275 280 285

Lys Pro Leu Tyr Ile Asn Phe Arg Lys Asp Leu Gly Trp Lys Trp Ile  
290 295 300

His Glu Pro Lys Gly Tyr Glu Ala Asn Tyr Cys Leu Gly Asn Cys Pro  
305 310 315 320

Tyr Ile Trp Ser Met Asp Thr Gln Tyr Ser Lys Val Leu Ser Leu Tyr  
325 330 335

Asn Gln Asn Asn Pro Gly Ala Ser Ile Ser Pro Cys Cys Val Pro Asp  
340 345 350

Val Leu Glu Pro Leu Pro Ile Ile Tyr Tyr Val Gly Arg Ile Ala Lys  
355 360 365

Val Glu Gln Leu Ser Asn Met Val Val Arg Ser Cys Asn Cys Ser  
370 375 380

<210> 28

<211> 8

<212> PRT

<213> Homo sapiens

<400> 28

Ala Pro Gln Gly Ile Ala Gly Gln  
1 5

<210> 29

<211> 8

<212> PRT

<213> Homo sapiens

<400> 29

Gly Pro Gln Gly Leu Leu Gly Ala  
1 5

<210> 30

<211> 8

<212> PRT

<213> Homo sapiens

<400> 30

Gly Pro Gln Gly Leu Ala Gly Gln  
1 5

<210> 31

<211> 8

<212> PRT

<213> Homo sapiens

<400> 31

Gly Pro Leu Gly Ile Ala Gly Ile  
1 5

<210> 32

<211> 8

<212> PRT

<213> Homo sapiens

<400> 32

Gly Pro Glu Gly Leu Arg Val Gly  
1 5

<210> 33

<211> 8

<212> PRT

<213> Rattus sp.

<400> 33

Ala Ala Tyr His Leu Val Ser Gln  
1 5

<210> 34

<211> 8

<212> PRT

<213> Rattus sp.

<400> 34

Met Asp Ala Phe Leu Glu Ser Ser  
1 5

<210> 35

<211> 8

<212> PRT

<213> Rattus sp.

<400> 35

Glu Pro Gln Ala Leu Ala Met Ser  
1 5

<210> 36

<211> 8

<212> PRT

<213> Rattus sp.

<400> 36

Gln Ala Leu Ala Met Ser Ala Ile  
1 5

<210> 37

<211> 8

<212> PRT

<213> Gallus domesticus

<400> 37

Pro Ser Tyr Phe Leu Asn Ala Gly

1 5

<210> 38

<211> 8

<212> PRT

<213> Homo sapiens

<400> 38

Tyr Glu Ala Gly Leu Gly Val Val  
1 5

<210> 39

<211> 8

<212> PRT

<213> Homo sapiens

<400> 39

Ala Gly Leu Gly Val Val Glu Arg  
1 5

<210> 40

<211> 8

<212> PRT

<213> Homo sapiens

<400> 40

Ala Gly Leu Gly Ile Ser Ser Thr  
1 5

<210> 41

<211> 8

<212> PRT

<213> Unknown

<220>

<223> Sequence source uncertain

<400> 41

Gly Ala Met Phe Leu Glu Ala Ile  
1 5

<210> 42

<211> 8

<212> PRT

<213> Homo sapiens

<400> 42

Ile Pro Glu Asn Phe Phe Gly Val  
1 5

<210> 43

<211> 8

<212> PRT

<213> Homo sapiens

<400> 43

Thr Glu Gly Glu Ala Arg Gly Ser  
1 5

<210> 44

<211> 8

<212> PRT

<213> Homo sapiens

<400> 44

Arg Ala Ile His Ile Gln Ala Glu  
1 5

<210> 45

<211> 8

<212> PRT

<213> Homo sapiens

<400> 45

Leu Arg Ala Tyr Leu Leu Pro Ala  
1 5

<210> 46

<211> 8

<212> PRT

<213> Cavia porcellus

<220>

<221> SITE

<222> (3) .. (3)

<223> Xaa=Hyp

<400> 46

Gly Ala Xaa Gly Leu Glx Gly His  
1 5

<210> 47

<211> 8

<212> PRT

<213> Rattus sp.

<400> 47

Gly Pro Gln Gly Val Arg Gly Glu  
1 5

<210> 48

<211> 8

<212> PRT

<213> Rattus sp.

<400> 48

Gly Pro Ala Gly Val Gln Gly Pro  
1 5

<210> 49

<211> 8

<212> PRT

<213> Rattus sp.

<220>

<221> SITE

<222> (6) .. (6)

<223> Xaa=Hyp

<400> 49

Gly Pro Ser Gly Leu Xaa Gly Pro  
1 5

<210> 50

<211> 8

<212> PRT

<213> Rattus sp.

<400> 50

Gly Pro Ala Gly Glu Arg Gly Ser  
1 5

<210> 51

<211> 8

<212> PRT

<213> Rattus sp.

<400> 51

Gly Ala Lys Gly Leu Thr Gly Ser  
1 5

<210> 52

<211> 8

<212> PRT

<213> Rattus sp.

<400> 52

Gly Pro Ala Gly Gln Asp Gly Pro  
1 5

<210> 53

<211> 8

<212> PRT

<213> Rattus sp.

<400> 53

Gly Pro Ala Gly Phe Ala Gly Pro  
1 5

<210> 54

<211> 8

<212> PRT

<213> Rattus sp.

<400> 54

Gly Pro Ile Gly Asn Val Gly Ala

1 5

<210> 55

<211> 8

<212> PRT

<213> Rattus sp.

<220>

<221> SITE

<222> (3)..(3)

<223> Xaa=Hyl

<400> 55

Gly Pro Xaa Gly Ser Arg Gly Ala  
1 5

<210> 56

<211> 8

<212> PRT

<213> Bos taurus

<400> 56

Gly Pro Gln Gly Ile Ala Gly Gln  
1 5

<210> 57

<211> 8

<212> PRT

<213> Bos taurus

<400> 57

Gly Pro Gln Gly Leu Leu Gly Ala  
1 5

<210> 58

<211> 8

<212> PRT

<213> Homo sapiens

<400> 58

Ile Pro Glu Asn Phe Phe Gly Val  
1 5

<210> 59

<211> 8

<212> PRT

<213> Homo sapiens

<400> 59

Pro Pro Gly Ala Tyr His Gly Ala  
1 5

<210> 60

<211> 8

<212> PRT

<213> Homo sapiens

<400> 60

Arg Ala Ile His Ile Gln Ala Glu  
1 5

<210> 61

<211> 8

<212> PRT

<213> Homo sapiens

<400> 61

Gly Pro His Leu Leu Val Glu Ala  
1 5

<210> 62

<211> 8

<212> PRT

<213> Homo sapiens

<400> 62

Leu Arg Ala Tyr Leu Leu Pro Ala  
1 5

<210> 63

<211> 8

<212> PRT

<213> Homo sapiens

<400> 63

Gly Pro Glu Gly Leu Arg Val Gly  
1 5

<210> 64

<211> 8

<212> PRT

<213> Homo sapiens

<400> 64

Arg Val Gly Phe Tyr Glu Ser Asp  
1 5

<210> 65

<211> 8

<212> PRT

<213> Homo sapiens

<400> 65

Leu Leu Ser Ala Leu Val Glu Thr  
1 5

<210> 66

<211> 8

<212> PRT

<213> Unknown

<220>

<223> Sequence source uncertain

<400> 66

Glu Ala Ile Pro Met Ser Ile Pro  
1 5

<210> 67

<211> 8

<212> PRT

<213> Unknown

<220>

<223> Sequence source uncertain

<400> 67

Ile Ala Gly Arg Ser Leu Asn Pro  
1 5

<210> 68

<211> 8

<212> PRT

<213> Gallus domesticus

<400> 68

Leu Asn Ala Gly Phe Thr Ala Ser  
1 5

<210> 69

<211> 8

<212> PRT

<213> Homo sapiens

<400> 69

Ile Pro Glu Asn Phe Phe Gly Val  
1 5

<210> 70

<211> 8

<212> PRT

<213> Unknown

<220>

<223> Sequence source uncertain

<400> 70

Lys Pro Gln Gln Phe Phe Gly Leu  
1 5

<210> 71

<211> 8

<212> PRT

<213> Homo sapiens

<400> 71

Asp Val Ala Gln Phe Val Leu Thr

1 5

<210> 72

<211> 8

<212> PRT

<213> Homo sapiens

<400> 72

Asp Thr Leu Glu Val Met Arg Lys  
1 5

<210> 73

<211> 8

<212> PRT

<213> Homo sapiens

<400> 73

Asp Val Gly His Phe Arg Thr Phe  
1 5

<210> 74

<211> 8

<212> PRT

<213> Homo sapiens

<400> 74

Asp Ser Gly Gly Phe Met Leu Thr  
1 5

<210> 75

<211> 8

<212> PRT

<213> Homo sapiens

<400> 75

Arg Val Ala Glu Met Arg Gly Glu  
1 5

<210> 76

<211> 8

<212> PRT

<213> Homo sapiens

<400> 76

Asp Leu Gly Arg Phe Gln Thr Phe  
1 5

<210> 77

<211> 8

<212> PRT

<213> Homo sapiens

<400> 77

Pro Phe Ser Pro Leu Val Ala Thr  
1 5

<210> 78

<211> 8

<212> PRT

<213> Homo sapiens

<400> 78

Leu Arg Ala Tyr Leu Leu Pro Ala  
1 5

<210> 79

<211> 8

<212> PRT

<213> Unknown

<220>

<223> Sequence source uncertain

<400> 79

Ala Pro Gly Asn Ala Ser Glu Ser  
1 5

<210> 80

<211> 8

<212> PRT

<213> Unknown

<220>

<223> Sequence source uncertain

<400> 80

Phe Ser Ser Glu Ser Lys Arg Glu  
1 5

<210> 81

<211> 8

<212> PRT

<213> Bos taurus

<400> 81

Ala Gly Gly Ala Gln Met Gly Val  
1 5

<210> 82

<211> 8

<212> PRT

<213> Bos taurus

<400> 82

Gln Met Gly Val Met Gln Gly Pro  
1 5

<210> 83

<211> 8

<212> PRT

<213> Bos taurus

<400> 83

Met Ala Ala Ser Leu Lys Arg Pro  
1 5

<210> 84

<211> 8

<212> PRT

<213> Bos taurus

<400> 84

Met Ala Ala Ser Ala Lys Arg Glu  
1 5

<210> 85

<211> 8

<212> PRT

<213> Bos taurus

<400> 85

Met Ala Ala Ser Leu Arg Lys Pro  
1 5

<210> 86

<211> 8

<212> PRT

<213> Bos taurus

<400> 86

Gln Ala Gln Ala Ile Leu Gln Gln  
1 5

<210> 87

<211> 8

<212> PRT

<213> Homo sapiens

<400> 87

Arg Ala Ile His Ile Gln Ala Glu  
1 5

<210> 88

<211> 8

<212> PRT

<213> Bos taurus

<400> 88

Leu Val Glu Ala Leu Tyr Leu Val  
1 5

<210> 89

<211> 8

<212> PRT

<213> Bos taurus

<400> 89

Glu Ala Leu Tyr Leu Val Cys Gly

1 5

<210> 90

<211> 8

<212> PRT

<213> Homo sapiens

<400> 90

Ile Pro Glu Asn Phe Phe Gly Val  
1 5

<210> 91

<211> 8

<212> PRT

<213> Homo sapiens

<400> 91

Gly Pro His Leu Leu Val Glu Ala  
1 5

<210> 92

<211> 8

<212> PRT

<213> Homo sapiens

<400> 92

Pro Pro Glu Glu Leu Lys Phe Gln  
1 5

<210> 93

<211> 8

<212> PRT

<213> Homo sapiens

<400> 93

Gly Pro Pro Gly Val Val Gly Pro  
1 5

<210> 94

<211> 8

<212> PRT

<213> Homo sapiens

<400> 94  
Gly Pro Pro Gly Leu Arg Gly Glu  
1 5

<210> 95

<211> 8

<212> PRT

<213> Homo sapiens

<400> 95  
Gly Pro Glu Gly Val Val Gly Pro  
1 5

<210> 96

<211> 8

<212> PRT

<213> Homo sapiens

<400> 96  
Ile Pro Glu Asn Phe Phe Gly Val  
1 5

<210> 97

<211> 8

<212> PRT

<213> Homo sapiens

<400> 97  
Pro Pro Gly Ala Tyr His Gly Ala  
1 5

<210> 98

<211> 8

<212> PRT

<213> Homo sapiens

<400> 98  
Arg Ala Ile His Ile Gln Ala Glu  
1 5

<210> 99

<211> 8

<212> PRT

<213> Homo sapiens

<400> 99

Arg Ala Ile His Ile Gln Ala Glu  
1 5

<210> 100

<211> 8

<212> PRT

<213> Homo sapiens

<400> 100

Gly Pro His Leu Leu Val Glu Ala  
1 5